



GAS-PROPELLED DOSING DEVICE.**Publication number:** EP0278954 (A1)**Publication date:** 1988-08-24**Inventor(s):** WINSEL AUGUST**Applicant(s):** WINSEL AUGUST**Classification:**

- international: **A61M5/14; A61M5/142; A61M5/155; A61M5/14; A61M5/142; A61M5/145; (IPC1-7): A61M5/14**

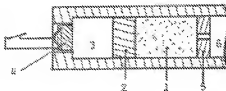
- European: **A61M5/142P10; A61M5/14C; A61M5/155**

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Device and process for injecting or perfusing a pharmaceutical solution (1) in a human or animal body by means of a gas-producing cell (4) characterized in that the hydrogen or oxygen gas (3) produced by an electric current drives the solution (1) from a storage volume by means of a moving piston (2) or a flexible membrane. Preferably, the subject of the invention consists of a gas-operated propulsion device, which conveys the solution essentially irrespective of the ambient conditions dictated by temperature and air pressure. The liquid to be conveyed is propelled through a lyophobic capillary vessel or through the capillary vessels in a lyophobic membrane acting as a decompression lock, whereby the overpressure required to produce the liquid surface in the lyophobic body acts as a counter-pressure.

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